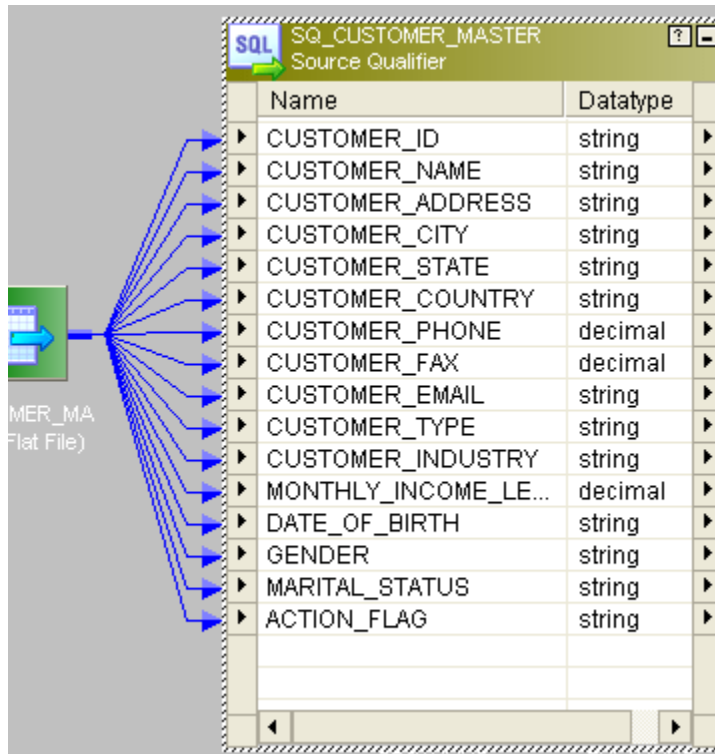


## Explain in detail SCD TYPE 2 through mapping.

### SCD Type2 Mapping

In Type 2 Slowly Changing Dimension, if one new record is added to the existing table with a new information then, both the original and the new record will be presented having new records with its own primary key.

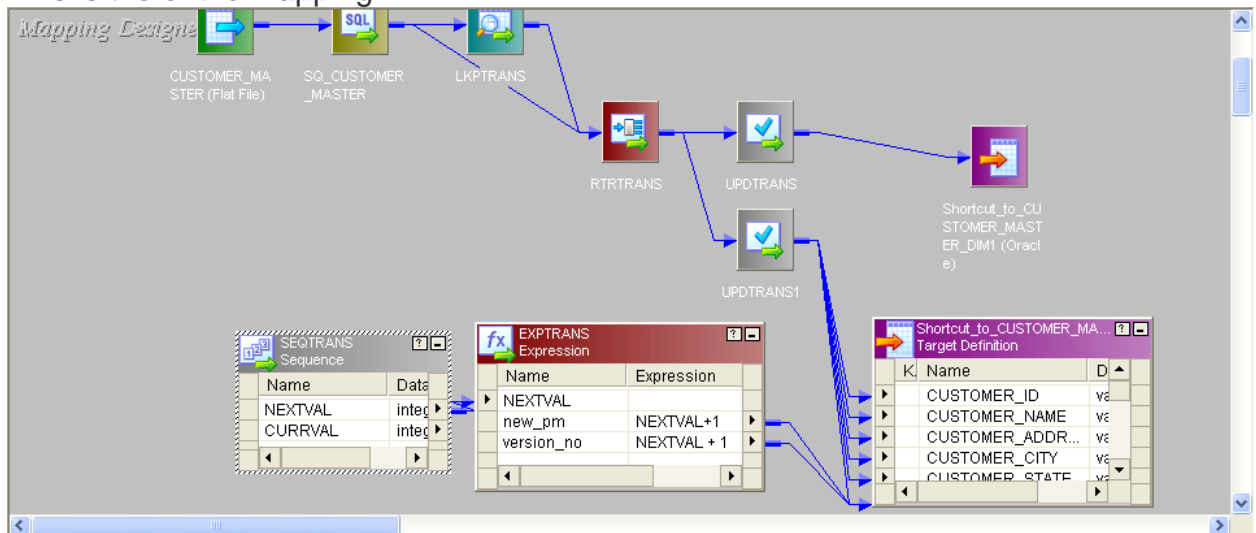
1. To identifying new\_rec we should add one new\_pm and one version\_no.
2. This is the source:



The diagram illustrates the mapping of a flat file source to a SQL table. On the left, a green icon represents a flat file source labeled 'MER\_MA (Flat File)'. Blue arrows point from this source to a table named 'SQ\_CUSTOMER\_MASTER' in a SQL environment. The table has a 'Source Qualifier' and a list of columns with their data types.

Name	Datatype
CUSTOMER_ID	string
CUSTOMER_NAME	string
CUSTOMER_ADDRESS	string
CUSTOMER_CITY	string
CUSTOMER_STATE	string
CUSTOMER_COUNTRY	string
CUSTOMER_PHONE	decimal
CUSTOMER_FAX	decimal
CUSTOMER_EMAIL	string
CUSTOMER_TYPE	string
CUSTOMER_INDUSTRY	string
MONTHLY_INCOME_LE...	decimal
DATE_OF_BIRTH	string
GENDER	string
MARITAL_STATUS	string
ACTION_FLAG	string

3. This is the entire mapping:



4. All the procedures are similar to SCD TYPE1 mapping. The Only difference is, from router new\_rec will come to one update\_strategy and condition will be given dd\_insert and one new\_pm and version\_no will be added before sending to target.
5. Old\_rec also will come to update\_strategy condition will give dd\_insert then will send to target.

## 27. Explain SCD TYPE 3 through mapping.

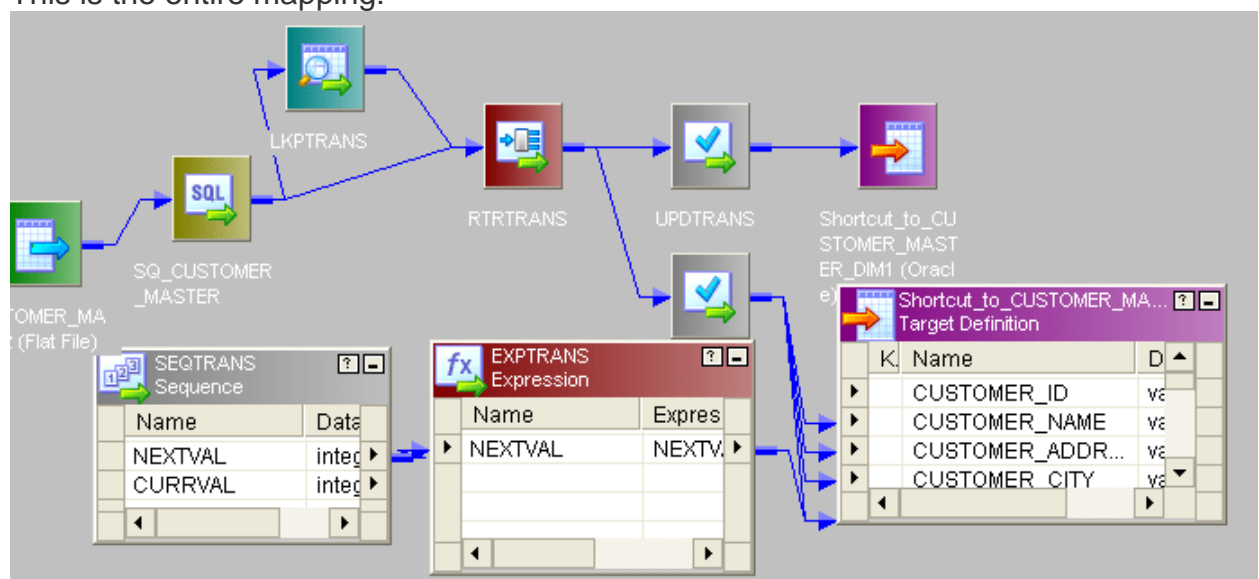
### SCD Type3 Mapping

In SCD Type3, there should be two columns added to identifying a single attribute. It stores one time historical data with current data.

1. This is the source:

Name	Datatype
CUSTOMER_ID	string
CUSTOMER_NAME	string
CUSTOMER_ADDRESS	string
CUSTOMER_CITY	string
CUSTOMER_STATE	string
CUSTOMER_COUNTRY	string
CUSTOMER_PHONE	decimal
CUSTOMER_FAX	decimal
CUSTOMER_EMAIL	string
CUSTOMER_TYPE	string
CUSTOMER_INDUSTRY	string
MONTHLY_INCOME_LE...	decimal
DATE_OF_BIRTH	string
GENDER	string
MARITAL_STATUS	string
ACTION_FLAG	string

2. This is the entire mapping:



3. Up to router transformation, all the procedure is same as described in SCD type1.
4. The only difference is after router, bring the new\_rec to router and give condition dd\_insert send to.
5. Create one new primary key send to target. For old\_rec send to update\_strategy and set condition dd\_insert and send to target.
6. You can create one effective\_date column in old\_rec table

